

FUNDED RESEARCH - 2000

Category	Project Title	ID#	Investigator	Organization
Economics	Selection of Business Arrangements by U.S. Pork Producers	00-145	Gillespie, Jeffrey M.	Louisiana Agricultural Experiment Station
Environment/Odor	Protocol Development for Measurement of Trace Gases Associated with Odor	00-004	Powers, Wendy	Iowa State University
Environment/Odor	Agronomic Feasibility of Growing Low-Phytate Corn	00-010	Schmitt, Michael A.	Regents of the University of Minnesota
Environment/Odor	Effect of dietary boron supplementation on phosphorus and nitrogen excretion in the growing pig	00-011	Spears, Jerry	North Carolina State University
Environment/Odor	Measurement and Prediction of Phosphorus Transport from Swine Manure at the Watershed Scale	00-022	Sauer, Thomas J.	USDA, ARS, Midwest Area
Environment/Odor	Alternative calcium and phosphorus sources for reducing ammonia emission through manipulation of excreta pH	00-043	van Kempen, Theo	North Carolina State University
Environment/Odor	Phosphorus Level Loading by Swine Effluent in a Field Injected Laboratory to Examine River Basin and Watershed Water Quality in Surface Water Runoff and Tile Water Discharge	00-053	Stephen, Roy M.	Arise Research & Discovery, Inc.
Environment/Odor	Impact of Odor and Dust on Pig Performance	00-065	von Bernuth, Robert D.	Michigan State University
Environment/Odor	Interactive effect of crude protein reduction and fermentable fibers on nitrogen metabolism, ammonia utilization, and slurry composition in the growing pig	00-069	Trottier, Nathalie L.	Michigan State University
Environment/Odor	Evaluation of dust and pathogens in air exhausted from swine facilities	00-088	Bowman, Gary L.	Ohio State University
Human Health & Safety	Effect of Exposure to Diluted Air Sampled From a Swine Confinement Atmosphere on Human Subjects	00-170	Schiffman, Susan S.	Duke University Medical School
Human Health & Safety	Documented Human Health Effects of Gases, Particulate Matter and Bioaerosols Emitted from Confined Swine Production Facilities	00-171	Auvermann, Brent W.	Texas A&M University
Human Health & Safety	Comprehensive Review on Human Health Effects of Pork Production Emissions	00-173	Yokoyama, Melvin T.	Michigan State University
Market Research	National Eating Trends	00C-002	Mixen, Anne	The NPD Group, Inc.
Pork Quality	Do Pork Loin Light Reflectance and Tenderness Affect Consumer Preference?	00-040	Lorenzen, Carol L.	University of Missouri - Columbia
Pork Quality	Influence of Early Postmortem Factors on Water-Holding Capacity and Tenderness of Fresh Pork	00-059	Huff-Lonergan, Elisabeth	Iowa State University
Pork Quality	Biochemical characterization of superior quality pork	00-070	Doumit, Matthew E.	Michigan State University
Pork Quality	RSE Development and Detection	00-117	Gerrard, David E.	Purdue University
Pork Quality	Modification of Pig Stunning Procedures to Improve Meat Quality	00-141	Simmons, Nicola	Ag Research
Pork Quality	Bacon Study - Phase II	00-147	Mandigo, Roger W.	University of Nebraska-Lincoln
Pork Safety/Post-Harvest	Effects of chilling methods for bacterial recovery and reducing bacteria on pork carcasses	00-015	Cutter, Catherine N.	Pennsylvania State University
Pork Safety/Post-Harvest	Development of Methods for Surveillance of Retail Meat for Toxoplasma gondii	00-024	Dubey, J. P.	USDA, ARS, Beltsville Area
Pork Safety/Post-Harvest	Model for the reduction of Salmonella on swine carcasses in slaughter facilities. I. Location of probable sources and sites of contamination	00-102	Dickson, James S.	Iowa State University
Pork Safety/Post-Harvest	Development of a sensitive molecular assay to detect Toxoplasma gondii DNA in biological samples	00-132	Lunney, Joan K.	USDA, ARS, Beltsville Area
Pork Safety/Pre-Harvest	Identification of diagnostic proteins of Toxoplasma gondii by targeted proteome analysis	00-025	Rhoads, M.	USDA, ARS, Beltsville Area

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Pork Safety/Pre-Harvest	Characterizing the Origin and Transfer of Antibiotic Resistance	00-050	Mathew, Alan G.	University of Tennessee Agricultural Experiment Station
Pork Safety/Pre-Harvest	Growth and Immunomodulatory Effects of the Seaweed <i>Ascophyllum Nodosum</i> in Salmonella-Infected Pigs	00-063	Minton, J. Ernest	Kansas State University
Pork Safety/Pre-Harvest	Characterization of the distribution and development of antimicrobial resistance patterns in resident microbial flora of swine	00-086	Gray, Jeffrey T.	USDA, ARS, South Atlantic Area
Pork Safety/Pre-Harvest	Evaluation of Antemortem Salmonella Detection Procedures in Market Weight Swine	00-098	McKean, James D.	Iowa State University
Pork Safety/Pre-Harvest	Evaluation of Methods to Differentiate Herd Responses to Salmonella	00-100	Turney-Harris, Isabel	Iowa State University
Pork Safety/Pre-Harvest	Applied studies on immune stimulation by Lactobacilli for the reduction of human foodborne Salmonella and replacement of subtherapeutic antimicrobials	00-103	Harris, D.L. Hank	Iowa State University
Pork Safety/Pre-Harvest	<i>Toxoplasma gondii</i> infection in sows and market weight pigs in the United States and its potential impact on consumer demand for pork	00-130	Patton, Sharon	University of Tennessee Agricultural Experiment Station
Pork Safety/Pre-Harvest	Prevalence of <i>Yersinia enterocolitica</i> in US market weight hogs	00-135	Wesley, Irene V.	USDA, ARS, Midwest Area
Pork Safety/Pre-Harvest	Effect of Sodium Chlorate on Salmonella Typhimurium in the Pig Gut	00-136	Anderson, Robin C.	USDA, ARS, Southern Plains Area
Pork Safety/Pre-Harvest	Effect of Competitive Exclusion on Post-Weaning <i>Escherichia coli</i> Infection	00-137	Genovese, Kenneth	USDA, ARS, Southern Plains Area
Pork Safety/Pre-Harvest	Developing Standardization Procedures & Conducting Product Testing for Veterinary-Use Hypodermic Devices	00-146	Hoff, Steven J.	Iowa State University
Pork Safety/Programs	Efficacy of antimicrobial peptide precursors as an antibiotic alternative in pigs	00-060	Stahly, Tim S.	Iowa State University
Pork Safety/Programs	Rapid Detection of Pathogenic Contamination in Pork for HACCP Monitoring	00-068	Alocilja, Evangelyn C.	Michigan State University
Swine Health	Transmissible gastroenteritis coronavirus (TGEV) and porcine respiratory coronavirus (PRCV): Detection, differentiation and molecular and pathologic characterization of recent field strains	00-013	Saif, Linda J.	Ohio State University
Swine Health	Macrophage Activation and Development of Porcine Circovirus Wasting Disease	00-014	Krakowka, Steven	Ohio State University
Swine Health	Human transmission of transmissible gastroenteritis virus from infected to non-infected pigs	00-016	Amass, Sandra F.	Purdue University
Swine Health	Evaluation of a new vaccine approach against mycoplasma pneumonia	00-027	Minion, F. Chris	Iowa State University
Swine Health	Use of Uncapsulated <i>Haemophilus parasuis</i> Vaccine in Pigs	00-030	Pijoan, Carlos	Regents of the University of Minnesota
Swine Health	A model for determining the efficacy of biosecurity protocols for preventing the transmission of PRRSV	00-032	Dee, Scott A.	Regents of the University of Minnesota
Swine Health	Assessing the efficacy of test and removal for the elimination of PRRSV from a 2500 sow herd with a history of PRRSV vaccination	00-035	Dee, Scott A.	Regents of the University of Minnesota
Swine Health	Development and implementation of an on farm cleaning and disinfection audit	00-047	Amass, Sandra F.	Purdue University
Swine Health	Development of Improved <i>Streptococcus suis</i> Vaccines for Control of PRRS Virus and <i>S. suis</i> Coinfection	00-092	Halbur, Patrick G.	Iowa State University

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Swine Health	Role of maternal immunity to type 2 porcine circovirus and PRRSV co-infection in the pathogenesis of PMWS	00-094	Sorden, Steven D.	Iowa State University
Swine Health	Genetic and antigenic stability of PRRS virus in persistently infected pigs	00-099	Yoon, Kyoung-Jin	Iowa State University
Swine Health	Transmission of Swine Hepatitis E Virus in Frozen Pork	00-104	Halbur, Patrick G.	Iowa State University
Swine Health	Evaluation of Brucella abortus strain Rb51 vaccine administered in oral bait as an immunologic agent to reduce or eradicate infection from a naturally infected feral/wild swine herd	00-105	Dees, Tommy	Florida Department of Agriculture
Swine Health	Field trial evaluation of the ability of a vaccine oral delivery system to assist with brucellosis and pseudorabies vaccine immunization of penned swine	00-106	Dees, Tommy	Florida Department of Agriculture
Swine Health	Characterization of PRRSV antibody and rtPCR responses following challenge with high doses of homologous (same) strain virus in pigs that are ELISA seronegative after multiple low dose immunizations	00-109	McCaw, Monte B.	North Carolina State University
Swine Health	Efficacy of a Streptococcus suis vaccine for the prevention of Streptococcus suis infection	00-131	Okwumabua, Ogi E.	Tuskegee University
Swine Health	Long lasting vaccine-induced immunity for swine flue (H3N2)	00-134	Wesley, Ronald D.	USDA, ARS, Midwest Area
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Pork Quality	Identification of unique protein in PSE pork using proteomics	00-085	Jones, Steven J.	University of Nebraska-Lincoln
Pork Quality	Regulation of Fat Synthesis by ASP in the pig	00-142	Miner, Jess L.	University of Nebraska-Lincoln
Pork Quality	Use of Antioxidants to Improve Sensory Characteristics and Consumer Acceptance of Irradiated Pork	00-150	Ahn, Dong Uk	Iowa State University
Pork Quality	Improving Shelf Life and Quality Traits of Minimally Processed Pork Loins	00-152	Lonergan, Steven	Iowa State University
Pork Quality	Use of Carbon Monoxide Packaging For Improving the Shelf-Life of Pork	00-153	Sebranek, Joseph G.	Iowa State University
Swine Health	Relationship of Distributions of Serological Responses to Occurrence of Respiratory Disease in Finisher Pigs	00-084	Wills, Robert W.	Mississippi State University